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NEW WOLF PRODUCT RELEASE: VPX3U-GTX850M

Rugged 3U VPX Graphics Board with NVIDIA Maxwell GPU

NORTH AMERICA – WOLF Advanced Technology announces a quantum jump forward in video graphic and parallel processing performance. Built on NVIDIA's 28nm Maxwell technology, WOLF's VPX3U-GTX850M board processes CUDA at 1.2 Teraflops per second, using 45 Watts – the highest performance per watt, in today's military and aerospace market.

"The low power consumption enables WOLF's Maxwell-based conductive cooled VPX3U-GTX850M board to operate at full speed—nearly 1.2 Teraflops/sec—unlike previous generation Kepler boards that had to be down-clocked to meet necessary VPX thermal maximums," says WOLF CEO Craig McLaren.

The remarkable ability of this new board to increase processing of certain mathematical formulations has enabled complex processing to a phenomenally faster rate, allowing for a major increase in image processing performance. Previous generation bandwidth bottlenecks aren't an issue, due to the Maxwell's 80.0 GB/s data bandwidth, PCIe Gen3 x16 bus speed, and the new ability to bypass all SBC data rebroadcast traffic jams with direct DMA access to GPU memory from WOLF's FGX Frame Grabber boards.

Built to military and aerospace requirements of 40G shock & vibration, -40 to +85°C conductive or air-cooled operation, this board is ideally suited for graphics and precision intensive applications such as image processing, video stabilization, filtering, terrain analytics, 3D visualization of geospatial data, object recognition and tracking.

"Our new Maxwell VPX board allows a land, sea or air vehicle to process precise images in real time, without the need for elaborate cooling solutions—and all in a standard conductive or air-cooled 3U VPX form factor," says McLaren.

This 3U VPX board is developed using NVIDIA's GeForce GTX-850M – CUDA powered 28nm GM107 GPU – which is clocked at 862MHz and has 5 Streaming Multiprocessors for Maxwell (SMMs) each housing 128 Arithmetic Logic Units (ALUs) for a combined total of 640 Shader cores for CUDA or OpenCL parallel processing. An additional 40 Texture Mapping Units and 16 Render Output Processors, with a massive 2MB L2 cache and 2GB of GDDR5 memory – running a 128-bit interface – offers a phenomenal DirectX 11.2 or OpenGL 4.4 rendering capability per watt. The GPU also supports the sixth generation PureVideo HD video engine (VP6) for hardware decoding of MPEG2 and H.264 compressed video at resolutions up to 4K.

WOLF offers two standard display output configurations: Three DisplayPort and one VGA; Two DisplayPort, one HDMI and one VGA; or optional custom configured VBIOS output combinations using standard NVIDIA Windows and Linux drivers.

WOLF Advanced Technology is a company specializing in design, engineering and manufacture of sophisticated imaging, encoding and video graphics controllers for military and aerospace industries. For over 20 years, WOLF Advanced Technology has served customers throughout the world from its North American headquarters.

FOR MORE INFO: http://wolf.ca/products/vpx3u-gtx850m/

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